



TP-576

HDMI, Data & IR over Twisted Pair Transceiver



The TP-576 is a DGKat™ twisted pair line driver for HDMI, bidirectional RS-232 and infrared signals. The unit receives an HDMI signal either from a local HDMI source or from a compatible twisted pair transmitter. It decodes the selected signals to the local HDMI, RS-232 and IR outputs and simultaneously transmits them to a compatible twisted pair receiver.

FEATURES

- **Max. Data Rate** - 6.75Gbps (2.25Gbps per graphic channel, HDMI); 4.95Gbps (1.65Gbps per graphic channel, twisted pair).
- **HDTV Compatible.**
- **HDCP Compliant.**
- **DGKat™ Signal Integration** - Kramer's unique technology for converting TMDS as well as control and communication to signals that run over twisted pair cables. We strongly recommend using Kramer DGKat™ cables designed specifically for optimum performance.
- **HDMI Support** - x.v.Color™, HDMI Uncompressed Audio Channels, Dolby TrueHD, DTS-HD.
- **3D Pass-Through.**
- **I-EDIDPro™ Kramer Intelligent EDID Processing™** - Intelligent EDID handling & processing algorithm ensures Plug and Play operation for HDMI systems.
- **HPD Pass Thru** - Passes hot plug detect signals from display to source.
- **Active Input/Output LED Indicators.**
- **System Range** - Up to 90m (295ft) at 1080i, or up to 30m (98ft) at 1080p on shielded BC-DGKat524 cable. Up to 90m (295ft) at 1080i, or up to 70m (230ft) at 1080p on shielded BC-DGKat623 cable. Up to 100m (330ft) at 1080i or up to 90m (295ft) at 1080p on shielded BC-DGKat7a23 cable.
- **Cable** - For optimum range and performance, use Kramer's BC-DGKat524, BC-DGKat623 and BC-DGKat7a23 cables. Note that the transmission range depends on the signal resolution, graphics card and display used. The distance using non-Kramer CAT 5, CAT 6, and CAT 7 cables may not reach these ranges. Use only shielded cable where both ends of the shield are soldered to ground.
- **Flexible Control** - Front panel, RS-232 & IR switching.
- **Power Connect™ System** - A single connection to the TP-576 powers the transmitter, receiver and line driver units.
- **Compact MegaTOOLS™** - 2 units can be rack mounted side-by-side in a 1U rack space with the optional RK-T2B universal rack adapter.



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TECHNICAL SPECIFICATIONS

INPUTS:	1 HDMI connector; 1 twisted pair on an RJ-45 connector.
OUTPUTS:	1 twisted pair on an RJ-45 connector; 1 HDMI connector.
PORTS:	1 bidirectional IR port on a 3.5mm mini jack, 1 bidirectional RS-232 port on a 9-pin D-sub connector (for local control).
MAX. DATA RATE:	6.75Gbps (2.25Gbps per graphic channel, HDMI); 4.95Gbps (1.65Gbps per graphic channel, twisted pair).
COMPLIANCE WITH HDMI STANDARD:	Supports HDMI and HDCP.
RS-232 BAUD RATE:	Up to 38.4kbps.
CONTROLS:	EDID SETUP button, input select button.
INDICATOR LEDs:	IN 1, IN 2, OUT 1, OUT 2, and ON LEDs.
POWER CONSUMPTION:	12V DC, 1.1A (full load, for example, when connected with TP-573 and TP-574).
DIMENSIONS:	12.1cm x 7.18cm x 2.42cm (4.76" x 2.83" x 0.95"), W, D, H.
WEIGHT:	0.3kg (0.67lbs) approx.
INCLUDED ACCESSORIES:	Power supply, bracket installation kit.
OPTIONS:	RK-T2B 19" rack adapter.

